

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method of updating a database schema for a database on a communication terminal which stores a plurality of content data, comprising:

requesting that an update-information providing apparatus provide update-information about a latest version of a program used for the content data on the communication terminal and update information about a database schema which includes instructions on how to modify a database schema already used by the communication terminal to a database schema corresponding to the latest version, the database schema indicating what types of information related to the content data can be stored in the database for each of the plurality of content data and indicating a configuration for storing the types of information related to the content data in the database for each of the plurality of content data;

receiving the update-information about the program and the update-information about the database schema, both transmitted from the update-information providing apparatus in response to the request;

updating the program in accordance with the update-information about the program;

comparing the database schema used by the updated program with the database schema already used by the communication terminal, in accordance with the update-information about the database schema, in terms of version; and

updating the database schema used by the communication terminal, in accordance with the update-information about the database schema, when it is determined in the comparing that the database schema needs to be updated.

Claim 2 (Previously Presented): The method of updating a database schema, according to claim 1, wherein in updating the database schema, accesses to the database from the program are inhibited while the database schema is being updated.

Claim 3 (Previously Presented): The method of updating a database schema, according to claim 2, wherein in updating the database schema, accesses to the database from any application in the program are inhibited while the database schema is being updated.

Claim 4 (Previously Presented): The method of updating a database schema, according to claim 1, wherein in updating the database schema, the database schema is inhibited from being updated while the program is accessing the database.

Claim 5 (Previously Presented): The method of updating a database schema, according to claim 4, wherein in updating the database schema, the database schema is inhibited from being updated while any application in the program is accessing the database.

Claim 6 (Previously Presented): The method of updating a database schema, according to claim 1, wherein in updating the database schema, log information is recorded for each command issued to the database to update the database schema.

Claim 7 (Currently Amended): A communication terminal comprising:
a processor;
a memory for storing a database which stores a plurality of content data;
requesting means for requesting that an update-information providing apparatus provide update-information about a latest version of a program used for the content data on

the communication terminal and update information about a database schema which includes instructions on how to modify a database schema already used by the communication terminal to a database schema corresponding to the latest version, the database schema indicating what types of information related to the content data can be stored in the database for each of the plurality of content data and indicating a configuration for storing the types of information related to the content data in the database for each of the plurality of content data;

receiving means for receiving the update-information about the program and the update-information about the database schema, both transmitted from the update-information providing apparatus in response to the request;

program-updating means for updating the program in accordance with the update-information about the program;

comparing means for comparing the database schema used by the updated program with the database schema already used by the communication terminal, in accordance with the update-information about the database schema, in terms of version; and

database schema updating means for updating the database schema used by the communication terminal, in accordance with the update-information about the database schema, when the comparing means determines that the database schema needs to be updated.

Claim 8 (Currently Amended): A method of providing update-information to a communication terminal which has a database storing a plurality of content data, comprising:

storing update-information for a latest version of a program used for the content data on the communication terminal and update-information for a database schema which includes instructions on how to modify a database schema already used by the communication terminal to a database schema corresponding to the latest version, the database schema

indicating what types of information related to the content data can be stored in the database for each of the plurality of content data and indicating a configuration for storing the types of information related to the content data in the database for each of the plurality of content data; and

transmitting the update-information for the program and the update-information for the database schema to the communication terminal when the communication terminal requests the update-information for the program and the update-information for the database schema,

wherein the program is updated in the communication terminal in accordance with the update-information for the program, the database schema used by the program and the database schema already used by the communication terminal are compared in terms of version in accordance with the update-information for the database schema, and the database schema used by the communication terminal is updated in accordance with the update-information about the database schema, when it is determined from the result of comparison that the database schema needs to be updated.

Claim 9 (Currently Amended): An update-information providing apparatus which provides update-information to a communication terminal which has a database storing a plurality of content data, the update-information providing apparatus comprising:

a processor;

storing means for storing update-information for a latest version of a program used for the content data on the communication terminal and update-information for a database schema which includes instructions on how to modify a database schema already used by the communication terminal to a database schema corresponding to the latest version, the database schema indicating what types of information related to the content data can be

stored in the database for each of the plurality of content data and indicating a configuration for storing the types of information related to the content data in the database for each of the plurality of content data; and

transmitting means for transmitting the update-information for the program and the update-information for the database schema to the communication terminal when the communication terminal requests the update-information for the program and the update-information for the database schema,

wherein the program is updated in the communication terminal in accordance with the update-information for the program, the database schema used by the program and the database schema already used by the communication terminal are compared in terms of version in accordance with the update-information for the database schema, and the database schema used by the communication terminal is updated in accordance with the update-information about the database schema, when it is determined from the result of comparison that the database schema needs to be updated.

Claim 10 (Currently Amended): A computer readable storage medium encoded with computer executable instructions, which when executed by a computer, cause a communication terminal, which includes a database storing a plurality of content data, to perform a method for updating a database schema comprising:

requesting that an update-information providing apparatus provide update-information about a latest version of a program used for the content data on the communication terminal and update information about a database schema which includes instructions on how to modify a database schema already used by the communication terminal to a database schema corresponding to the latest version, the database schema indicating what types of information related to the content data can be stored in the database for each of the plurality of content

data and indicating a configuration for storing the types of information related to the content data in the database for each of the plurality of content data;

receiving the update-information about the program and the update-information about the database schema, both transmitted from the update-information providing apparatus in response to the request;

updating the program in accordance with the update-information about the program;

comparing the database schema used by the updated program with the database schema already used by the communication terminal, in accordance with the update-information about the database schema, in terms of version; and

updating the database schema used by the communication terminal, in accordance with the update-information about the database schema, when it is determined in the comparing that the database schema needs to be updated.

Claim 11 (Currently Amended): A computer readable storage medium encoded with computer executable instructions, which when executed by a computer, cause an update-information providing apparatus to perform a method for providing update information to a communication terminal which has a database storing a plurality of content data, the method comprising:

storing update-information for a latest version of a program used for the content data on the communication terminal and update-information for a database schema which includes instructions on how to modify a database schema already used by the communication terminal to a database schema corresponding to the latest version, the database schema indicating what types of information related to the content data can be stored in the database for each of the plurality of content data and indicating a configuration for storing the types of

information related to the content data in the database for each of the plurality of content data; and

transmitting the update-information for the program and the update-information for the database schema to the communication terminal when the communication terminal requests the update-information for the program and the update-information for the database schema,

wherein the program is updated in the communication terminal in accordance with the update-information for the program, the database schema used by the program and the database schema already used by the communication terminal are compared in terms of version in accordance with the update-information for the database schema, and the database schema used by the communication terminal is updated in accordance with the update-information about the database schema, when it is determined from the result of comparison that the database schema needs to be updated.

Claim 12 (Currently Amended): A communication terminal comprising:

a processor;

a memory for storing a database which stores a plurality of content data;

requesting unit configured to request that an update-information providing apparatus provide update-information about a latest version of a program used for the content data on the communication terminal and update information about a database schema which includes instructions on how to modify a database schema already used by the communication terminal to a database schema corresponding to the latest version, the database schema indicating what types of information related to the content data can be stored in the database for each of the plurality of content data and indicating a configuration for storing the types of

information related to the content data in the database for each of the plurality of content data;

a receiving unit configured to receive the update-information about the program and the update-information about the database schema, both transmitted from the update-information providing apparatus in response to the request;

a program-updating unit configured to update the program in accordance with the update-information about the program;

a comparing unit configured to compare the database schema used by the updated program with the database schema already used by the communication terminal, in accordance with the update-information about the database schema, in terms of version; and

a database schema updating unit configured to update the database schema used by the communication terminal, in accordance with the update-information about the database schema, when the comparing unit determines that the database schema needs to be updated.